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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/043,645	01/10/2002	Kannan Srinivasan	067407-5106-US	6048
	7590 03/21/2007 WIS & BOCKIUS, LLP		EXAM	INER
ONE MARKET	SPEAR STREET TOWER	t .	LUDLOW, JAN M	
SAN FRANCIS	SCO, CA 94105		ART UNIT	PAPER NUMBER
	•		1743	
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MOI	NTHS	03/21/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

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	Application No.	Applicant(s)	
	10/043,645	SRINIVASAN ET AL.	
Office Action Summary	Examiner	Art Unit	
	Jan M. Ludlow	1743	
The MAILING DATE of this communication appeariod for Reply	pears on the cover sheet w	ith the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailine earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNI 136(a). In no event, however, may a will apply and will expire SIX (6) MOI e, cause the application to become A	CATION. reply be timely filed NTHS from the mailing date of this communication BANDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 29 E	December 2006.		
2a) This action is FINAL . 2b) ⊠ This	s action is non-final.		
3) Since this application is in condition for allowa	ance except for formal mat	ters, prosecution as to the merits is	3
closed in accordance with the practice under	Ex parte Quayle, 1935 C.	D. 11, 453 O.G. 213.	
Disposition of Claims			
4)⊠ Claim(s) <u>1-19 and 21-28</u> is/are pending in the	application.		
4a) Of the above claim(s) <u>1-15,27 and 28</u> is/ar	• •	ration.	
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>16-26</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and/o	or election requirement.		
Application Papers			
9) The specification is objected to by the Examine	er.		
10)⊠ The drawing(s) filed on 10 January 2002 is/are	e: a)⊠ accepted or b)□ o	objected to by the Examiner.	
Applicant may not request that any objection to the			
Replacement drawing sheet(s) including the correct	ction is required if the drawing	(s) is objected to. See 37 CFR 1.121(c	i).
11) The oath or declaration is objected to by the E	xaminer. Note the attache	d Office Action or form PTO-152.	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreigr a) All b) Some * c) None of:	n priority under 35 U.S.C.	§ 119(a)-(d) or (f).	
1. Certified copies of the priority document	ts have been received.		
2. Certified copies of the priority document	ts have been received in A	Application No	
3. Copies of the certified copies of the prior	ority documents have beer	received in this National Stage	
application from the International Burea	u (PCT Rule 17.2(a)).		
* See the attached detailed Office action for a list	t of the certified copies not	received.	
Attachment(s)	_		
I) ⊠ Notice of References Cited (PTO-892) ☑ Notice of Draftsperson's Patent Drawing Review (PTO-948)		Summary (PTO-413) s)/Mail Date	
B) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date		nformal Patent Application	

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1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on December 29, 2006 has been entered.

- 2. Claim 16 is objected to because of the following informalities: In claim 16, line 3, "an inlet an outlet" appears to be missing the word "and". Appropriate correction is required.
- 3. Claims 16-19, 21-26 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 4. In claim 16, parts c and f are unclear because part c states that the flow path extends from the eluent source to the purifying channel inlet, and part f states that the purifying flow channel is in the flow path. If the flow path ends at the purifying channel inlet, isn't the purifying channel adjacent to or contiguous with the flow path, which ends before entering the purifying channel?
- 1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

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(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - 3. Resolving the level of ordinary skill in the pertinent art.
 - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 3. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

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4. Claims 16-18, 20-21, 23-26 are rejected under 35 U.S.C. 102(e) as being anticipated by Anderson Jr. et al US006468804B1.

Anderson teaches a housing 15, a source of electrolyte-containing eluent 10, electrodes 22, 23, a chromatographic column 14, injector 12 upstream of the column, a detector 21, barriers 26a,b and flow-through ion exchange medium 31. The flow connections and electrode positions are as claimed. The housing also constitutes a suppressor. By virtue of the recycle loop, the suppressor/purifier is both upstream and downstream of the column, the injector and the eluent source. See Figures 1 and 3.

- 5. Applicant's arguments filed December 29, 2006 have been fully considered but they are not persuasive.
- 6. Applicant argues that claim 16 has been amended to recite that the purifier flow channel is disposed in the flow path between the eluent source and the sample injector, but this is not the claim language found in claim 16, which states that the flow path extends from the eluent source to the purifying channel inlet, and that the purifying flow channel is in the flow path.
- Applicant argues that Anderson does not teach a charged barrier, but filters 26a, 26b comprise strong cation exchange resins (col. 5, line 50). It is the examiner's understanding that, e.g., for anion analysis, the electrolyte selected ion is a cation, the chromatography has exchangeable ions of charge opposite to the selected ion, i.e., is an anion exchanger. The cation exchange barrier has a negative charge, the same as the exchangeable ions (anion) of the column.

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8. Applicant's arguments are persuasive with respect to amended claim 22. In accordance with the above analysis, the purifier packing has exchangeable ions of the same charge as the electrolyte selected ion and opposite the exchangeable ions of the chromatography column.

9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Johnson teaches purifying a carrier distinct form the electrolyte eluent with mixed ion exchange cartridge 26 in ion chromatography.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jan M. Ludlow whose telephone number is (571) 272-1260. The examiner can normally be reached on Monday-Thursday, 11:30 am - 8:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jill A. Warden can be reached on (571) 272-1267. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jan M. Ludlow Primary Examiner Art Unit 1743

Jml March 19, 2007